



CRYSTEK

MICROWAVE

A DIVISION OF CRYSTEK CORPORATION

18 GHZ PRECISION RF COAX CABLE ASSEMBLIES WITH STAINLESS STEEL CONNECTORS



SS402 50 Ohm 18 GHz Precision Coaxial Cables

Features:

- Strain Relief:** Heavy duty adhesive strain relief
- Center Conductor:** SPCCS (Silver-Plated Copper Clad Steel)
- Inner Shielding:** SS (Spiral Strip Of Silver-Plated Copper)
- Outer Braid:** SPC (Silver-Plated Copper Braid)
- Insulation:** PTFE (Polytetrafluoroethylene) dielectric
- Jacket:** ETFE (Ethylene Tetrafluoroethylene Copolymer)
- Cable Outer Diameter:** 0.163" (4.14mm)
- Connectors:** SST, corrosion-resistant, per ASTM-A582 (Passivated finish per SAE-AMS-2700)
- Center Pin:** GPBC (Gold-Plated Beryllium Copper)
- Jacket Color:** Blue
- Operating Temperature:** -45°C to +85°C

Minimum Bend Radius: 0.8" (20.32mm)
Custom Lengths Available

- Available Connector Terminations:
- SMA Male
 - SMA Male Right Angle
 - Type N Male
 - Type N Bulkhead Female



Electrical Specifications:

- Impedance:** 50 Ohms
- Frequency:** 18 GHz
- Insertion Loss:** 0.66 dB/ft Typ at 18 GHz
- VSWR:** <1.3, DC to 18 GHz
- Nominal Capacitance:** 29 pF/ft
- Velocity of Propagation:** 70%
- Shield Effectiveness:** Greater than 110 dB
- Attenuation (dB/ft):** 0.08 Typical at 500 MHz
*connector loss not included
0.11 Typical at 1 GHz
0.21 Typical at 3 GHz
0.32 Typical at 6 GHz
0.50 Typical at 12 GHz
0.66 Typical at 18 GHz

- Avg Power in (Watts):** 920 @ 500 MHz
*as specified at 25°C
620 @ 1 GHz
360 @ 3 GHz
220 @ 6 GHz
150 @ 12 GHz
120 @ 18 GHz

Mechanical Specifications:

- Connector Corrosion (salt spray):** MIL-STD-202, method 101, test cond. B 5% salt solution.
- Connector Durability:** 500 connections Minimum

SMA Male / SMA Male[Straight/Straight]

Part Number	Description	Length
CCSMA-MM-SS402-6	SS402 Precision Coax Cable, SMA Male Straight / Male Straight	6"
CCSMA-MM-SS402-12	SS402 Precision Coax Cable, SMA Male Straight / Male Straight	12"
CCSMA-MM-SS402-24	SS402 Precision Coax Cable, SMA Male Straight / Male Straight	24"
CCSMA-MM-SS402-36	SS402 Precision Coax Cable, SMA Male Straight / Male Straight	36"
CCSMA-MM-SS402-48	SS402 Precision Coax Cable, SMA Male Straight / Male Straight	48"
CCSMA-MM-SS402-60	SS402 Precision Coax Cable, SMA Male Straight / Male Straight	60"
CCSMA-MM-SS402-72	SS402 Precision Coax Cable, SMA Male Straight / Male Straight	72"
CCSMA-MM-SS402-120	SS402 Precision Coax Cable, SMA Male Straight / Male Straight	120"



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 COAX CABLE ASSEMBLIES
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 CONNECTORS**



SMA Male [Straight/Right Angle]

Part Number	Description	Length
CCSMA1-MM-SS402-6	SS402 Precision Coax Cable, SMA Male Straight / SMA Male R/A	6"
CCSMA1-MM-SS402-12	SS402 Precision Coax Cable, SMA Male Straight / SMA Male R/A	12"
CCSMA1-MM-SS402-24	SS402 Precision Coax Cable, SMA Male Straight / SMA Male R/A	24"
CCSMA1-MM-SS402-36	SS402 Precision Coax Cable, SMA Male Straight / SMA Male R/A	36"
CCSMA1-MM-SS402-48	SS402 Precision Coax Cable, SMA Male Straight / SMA Male R/A	48"
CCSMA1-MM-SS402-60	SS402 Precision Coax Cable, SMA Male Straight / SMA Male R/A	60"
CCSMA1-MM-SS402-72	SS402 Precision Coax Cable, SMA Male Straight / SMA Male R/A	72"
CCSMA1-MM-SS402-120	SS402 Precision Coax Cable, SMA Male Straight / SMA Male R/A	120"

SMA Male[Right Angle/Right Angle]

Part Number	Description	Length
CCSMA2-MM-SS402-6	SS402 Precision Coax Cable, SMA Male R/A / SMA Male R/A	6"
CCSMA2-MM-SS402-12	SS402 Precision Coax Cable, SMA Male R/A / SMA Male R/A	12"
CCSMA2-MM-SS402-24	SS402 Precision Coax Cable, SMA Male R/A / SMA Male R/A	24"
CCSMA2-MM-SS402-36	SS402 Precision Coax Cable, SMA Male R/A / SMA Male R/A	36"
CCSMA2-MM-SS402-48	SS402 Precision Coax Cable, SMA Male R/A / SMA Male R/A	48"
CCSMA2-MM-SS402-60	SS402 Precision Coax Cable, SMA Male R/A / SMA Male R/A	60"
CCSMA2-MM-SS402-72	SS402 Precision Coax Cable, SMA Male R/A / SMA Male R/A	72"
CCSMA2-MM-SS402-120	SS402 Precision Coax Cable, SMA Male R/A / SMA Male R/A	120"



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